

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 April 2004 (15.04.2004)

PCT

(10) International Publication Number
WO 2004/031278 A1

(51) International Patent Classification⁷: C08K 3/00, C09J 7/00

(21) International Application Number:
PCT/CA2003/001518

(22) International Filing Date: 2 October 2003 (02.10.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2,406,432 3 October 2002 (03.10.2002) CA

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): BAYER INC. [CA/CA]; Patent Department, 1265 Vidal St. S., P.O. Box 3001, Sarnia, Ontario N7T 7M2 (CA).

Declaration under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations*

(72) Inventors; and

Published:

(75) Inventors/Applicants (*for US only*): GRONOWSKI, Adam [CA/CA]; 1236 Wiltshire Drive, Sarnia, Ontario N7S 3W2 (CA). GLANDER, Stephan [DE/CA]; 2116 Huron Shores Drive, Sarnia, Ontario N7T 7H6 (CA).

— *with international search report*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(74) Agent: SMART & BIGGAR; 55 Metcalfe Street, Suite 900, P.O. Box 2999, Station D, Ottawa, Ontario K1P 5Y6 (CA).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ADHESIVE COMPOUNDS OF BUTYL-TYPE RUBBER

(57) Abstract: The present invention relates to a substantially gel-free sealant or adhesive compound comprising butyl-type polymer without any conjugated aliphatic diene in its composition having an average molecular weight M_n of more than 20,000 g/mol and containing less than 15 wt.% of solid matter insoluble in boiling cyclohexane under reflux for 60 min., and a self-supporting shaped article comprising said compound optionally layered on or interposed between one or more supporting means as well as a tape comprising said substantially gel-free compound optionally layered on or interposed between one or more supporting means. In still another of its aspects, the present invention relates to an adhesive composition comprising said substantially gel-free compound. In still another of its aspects, the present invention relates to a sealant composition comprising said substantially gel-free compound.

WO 2004/031278 A1